

Virology

Volume 136

1984

EDITORS

V. K. Joklik, EDITOR-IN-CHIEF G. E. Bruening P. W. Choppin R. Haselkorn
D. W. Kingsbury A. J. Levine F. Rapp M. D. Summers P. K. Vogt

ASSOCIATE EDITORS

S. Adhya	J. M. Dalrymple	W. S. Hayward	R. B. Luftig	G. F. Rohrmann	V. Stollar
C. Baglioni	J. M. DeMarchi	K. V. Holmes	I. G. Miller, Jr.	B. Roizman	B. Sugden
A. K. Banerjee	E. Ehrenfeld	M. S. Horwitz	L. K. Miller	J. A. Rose	M. M. Susskind
C. Basilico	F. A. Eiserling	M. M. Howe	R. C. Miller, Jr.	L. B. Rothman-Denes	R. H. Symons
K. L. Beemon	M. K. Estes	R. Hull	P. Model	J. Sambrook	P. Tattersall
T. Ben-Porat	A. J. Faras	T. Hunter	T. J. Morris	C. E. Samuel	P. Tegtmeier
K. I. Berns	P. Faulkner	A. O. Jackson	B. Moss	P. A. Schaffer	D. A. Thorley-Lawson
D. H. L. Bishop	B. N. Fields	J. E. Johnson	S. A. Moyer	A. Scheid	D. W. Trent
J. M. Bishop	S. J. Flint	J. M. Kaper	F. A. Murphy	M. J. Schlesinger	H. E. Varmus
L. W. Black	W. R. Folk	J. D. Keene	P. E. Neiman	I. R. Schneider	I. M. Verma
M. A. Bratt	R. I. B. Francki	R. M. Krug	J. R. Nevins	E. M. Scolnick	E. K. Wagner
T. R. Broker	E. P. Geiduschek	M. Lai	J. F. Obijeski	J. R. Scott	E. Wimmer
J. S. Brugge	W. Gerhard	R. A. Lamb	D. J. O'Callaghan	P. B. Sehgal	O. Witte
B. J. Carter	R. F. Gesteland	R. A. Lazzarini	P. Palese	P. A. Sharp	J. Youngner
J. M. Coffin	R. M. Goodman	A. D. Levinson	E. Paoletti	J. G. Shaw	M. Zaitlin
J. S. Colter	A. Granoff	L. Levintow	C. C. Payne	T. Shenk	N. D. Zinder
R. J. Courtney	D. E. Griffin	D. M. Livingston	H. J. Raskas	P. G. Spear	
S. Dales	G. Hager	H. F. Lodish	H. D. Robertson		



ACADEMIC PRESS, INC.

(Harcourt Brace Jovanovich, Publishers)

San Diego Orlando New York London

Toronto Montreal Sydney Tokyo

Copyright © 1984 by Academic Press, Inc.

All Rights Reserved

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the copyright owner.

The appearance of the code at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use, or for the personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per copy fee through the Copyright Clearance Center, Inc. (21 Congress Street, Salem, Massachusetts 01970), for copying beyond that permitted by Sections 107 or 108 of the U. S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Copy fees for pre-1984 articles are as shown on the article title pages; if no fee code appears on the title page, the copy fee is the same as for current articles.

0042-6822/84 \$3.00

MADE IN THE UNITED STATES OF AMERICA

Contents of Volume 136

NUMBER 1, JULY 15, 1984

SCHOLTISSEK, R. T. SCHWARZ, W. KEIL, AND H.-D. KLENK. A Mutant of Fowl Plague Virus (Influenza A) with an Altered Glycosylation Pattern in Its Hemagglutinin	1
ABLO R. GRIGERA AND SERGIO G. TISMINETZKY. Histone H3 Modification in BHK Cells Infected with Foot-and-Mouth Disease Virus	10
LAUDINE BRUCK, NATHALIE RENSONNET, DANIEL PORTETELLE, YVETTE CLEUTER, MARC MAMMERICKX, ARSÈNE BURNY, ROBERT MAMOUN, BERNARD GUILLEMAIN, MARTIN J. VAN DER MAATEN, AND JACQUES GHYSDAEL. Biologically Active Epitopes of Bovine Leukemia Virus Glycoprotein GP51: Their Dependence on Protein Glycosylation and Genetic Variability	20
VAN EMMELO, P. AMELOOT, G. PLAETINCK, AND W. FIERS. Controlled Synthesis of the Coat Protein of Satellite Tobacco Necrosis Virus in <i>Escherichia coli</i>	32
I. AGOL, V. P. GRACHEV, S. G. DROZDOV, M. S. KOLESNIKOVA, V. G. KOZLOV, N. M. RALPH, L. I. ROMANOVA, E. A. TOLSKAYA, A. V. TYUFANOV, AND E. G. VIKTOROVA. Construction and Properties of Intertypic Poliovirus Recombinants: First Approximation Mapping of the Major Determinants of Neurovirulence	41
LARY F. D. NOTTER AND P. C. BALDUZZI. Cytoskeletal Changes Induced by Two Avian Sarcoma Viruses: UR2 and Rous Sarcoma Virus	56
RUDY BREZNIK, VICKI TRAINA-DORGE, MIGUEL GAMA-SOSA, CHARLES W. GEHRKE, MELANIE EHRLICH, DAN MEDINA, JANET S. BUTEL, AND J. CRAIG COHEN. Mouse Mammary Tumor Virus DNA Methylation: Tissue-Specific Variation	69
M. KOCH, W. J. NEUBERT, AND P. H. HOFSCHEIDER. Lifelong Persistence of Paramyxovirus Sendai-6/94 in C129 Mice: Detection of a Latent Viral RNA by Hybridization with a Cloned Genomic cDNA Probe	78
HUGHES AND E. KOSIK. Mutagenesis of the Region between <i>env</i> and <i>src</i> of the SR-A Strain of Rous Sarcoma Virus for the Purpose of Constructing Helper-Independent Vectors	89
LAY L. POGUE-GEILE, GLORIA T.-Y. LEE, STUART K. SHAPIRA, AND PATRICIA G. SPEAR. Fine Mapping of Mutations in the Fusion-Inducing MP Strain of Herpes Simplex Virus Type 1	100
RABIR RAY, ANURADHA SENGUPTA, AND JYOTIRMOY DAS. Phosphate Repression of Phage Protein Synthesis during Infection by Cholera phage ϕ 149	110
F. SKERN, W. SOMMERGRUBER, D. BLAAS, CH. PIELER, AND E. KUECHLER. Relationship of Human Rhinovirus Strain 2 and Poliovirus as Indicated by Comparison of the Polymerase Gene Regions	125
SUSAN M. MUNEMITSU AND CHARLES E. SAMUEL. Biosynthesis of Reovirus-Specified Polypeptides. Multiplication Rate but Not Yield of Reovirus Serotypes 1 and 3 Correlates with the Level of Virus-Mediated Inhibition of Cellular Protein Synthesis	133
ALAN REIN AND ALAN SCHULTZ. Different Recombinant Murine Leukemia Viruses Use Different Cell Surface Receptors	144
NATHALIE MORIN AND PIERRE BOULANGER. Morphogenesis of Human Adenovirus Type 2: Sequence of Entry of Proteins into Preval and Viral Particles	153
BARBARA T. WAGGONER, CARL F. MARRS, MARTHA M. HOWE, AND MARTIN L. PATO. Multiple Factors and Processes Involved in Host Cell Killing by Bacteriophage Mu: Characterization and Mapping	168
R. GOORHA AND P. DIXIT. A Temperature-Sensitive (TS) Mutant of Frog Virus 3 (FV3) Is Defective in Second-Stage DNA Replication	186
ABRAHAM PINTER, WILLIAM J. HONNEN, AND JI SOO LI. Studies with Inhibitors of Oligosaccharide Processing Indicate a Functional Role for Complex Sugars in the Transport and Proteolysis of Friend Mink Cell Focus-Inducing Murine Leukemia Virus Envelope Proteins	196
TERYL K. FREY AND JULIUS S. YOUNGNER. Further Studies of the RNA Synthesis Phenotype Selected during Persistent Infection with Vesicular Stomatitis Virus	211
J. E. MARUNIAK, S. E. BROWN, AND D. L. KNUDSON. Physical Maps of SfMNPV Baculovirus DNA and Its Genomic Variants	221
SHORT COMMUNICATIONS	
S. E. BROWN, J. E. MARUNIAK, AND D. L. KNUDSON. Physical Map of SeMNPV Baculovirus DNA: An AcMNPV Genomic Variant	235
WAYNE L. GRAY AND JOHN E. OAKES. Simian Varicella Virus DNA Shares Homology with Human Varicella-Zoster Virus DNA	241
RONALD C. KENNEDY, JAMES T. SPARROW, YANUARIO SANCHEZ, JOSEPH L. MELNICK, AND GORDON R. DREESMAN. Enhancement of Viral Hepatitis B Antibody (Anti-HBs) Response to a Synthetic Cyclic Peptide by Priming with Anti-idiotypic Antibodies	247
AUTHOR INDEX FOR VOLUME 136, NUMBER 1	253

W. F. H. JARRETT, M. S. CAMPO, B. W. O'NEIL, H. M. LAIRD, AND L. W. COGGINS. A Novel Bovine Papillomavirus (BPV-6) Causing True Epithelial Papillomas of the Mammary Gland Skin: A Member of a Proposed New BPV Subgroup	22
LAURA KINGSFORD. Enhanced Neutralization of La Crosse Virus by the Binding of Specific Pairs of Monoclonal Antibodies to the G1 Glycoprotein	24
Y. YOSHINAKA, I. KATOH, AND R. B. LUFTIG. Murine Retrovirus Pr65 ^{gag} Forms a 130K Dimer in the Absence of Disulfide Reducing Agents	27
DOUWE ZUIDEMA, ROBERT H. COOL, AND E. M. J. JASPARS. Minimum Requirements for Specific Binding of RNA and Coat Protein of Alfalfa Mosaic Virus	28
TAKESHI IHARA, HIROO MIKASHI, AND DAVID H. L. BISHOP. Novel Coding Strategy (Ambisense Genomic RNA) Revealed by Sequence Analyses of Punta Toro Phlebovirus S RNA	29
R. F. SILVA AND L. F. LEE. Monoclonal Antibody-Mediated Immunoprecipitation of Proteins from Cells Infected with Marek's Disease Virus or Turkey Herpesvirus	30
JOSEPH WEBER AND LENNART PHILIPSON. Protein Composition of Adenovirus Nucleoprotein Complexes Extracted from Infected Cells	32
JOHN S. BRUSCA, RANDA JANNUN, AND G. CHINNADURAI. Efficient Transformation of Rat 3Y1 Cells by Human Adenovirus Type 9	32
SEISUKE HATTORI, TETSUYUKI KIYOKAWA, KEN-ICHI IMAGAWA, FUMIO SHIMIZU, ETSURO HASHIMURA, MOTOHARU SEIKI, AND MITSUAKI YOSHIDA. Identification of <i>gag</i> and <i>env</i> Gene Products of Human T-Cell Leukemia Virus (HTLV)	33
TILO PATSCHINSKY, GERNOT WALTER, AND KLAUS BISTER. Immunological Analysis of <i>v-myc</i> Gene Products Using Antibodies against a <i>myc</i> -Specific Synthetic Peptide	34
EUGENE O. MAJOR, PASCALE MOURRAIN, AND CRAIG CUMMINS. JC Virus-Induced Owl Monkey Glioblastoma Cells in Culture: Biological Properties Associated with the Viral Early Gene Product	35
RONALD C. MONTELARO, MELANIE WEST, AND CHARLES J. ISSEL. Antigenic Reactivity of the Major Glycoprotein of Equine Infectious Anemia Virus, a Retrovirus	36
MARK A. SNYDER AND J. MICHAEL BISHOP. A Mutation at the Major Phosphotyrosine in pp60 ^{v-src} Alters Oncogenic Potential	37
M. H. BINGER AND S. J. FLINT. Accumulation of Early and Intermediate mRNA Species during Subgroup C Adenovirus Productive Infections	38
JUTTA LANGE-MUTSCHLER AND ROLAND HENNING. Cell Surface Binding Simian Virus 40 Large T Antigen Becomes Anchored and Stably Linked to Lipid of the Target Cells	40
HEINZ-JÜRGEN THIEL AND RUDOLF HAFENRICHTER. Simian Sarcoma Virus Transformation-Specific Glycopeptide: Immunological Relationship to Human Platelet-Derived Growth Factor	41
WIM QUINT, WILBERT BOELEN, PETER VAN WEZENBEEK, ELS ROBANUS MAANDAG, AND ANTON BERNIS. Generation of AKR Mink Cell Focus-Forming Virus: Nucleotide Sequence of the 3' End of a Somatic Acquired AKR-MCF	42
SHORT COMMUNICATIONS	
MASASHIRO OBATA, HIROSHI AMANUMA, YOSHINORI HARADA, NORIYUKI SAGATA, AND YOJI IKAWA. <i>env</i> -Related Leukemogenic Genes (gp55 Genes) of Two Closely Related Polycythemic Strains of Friend Spleen Focus-Forming Virus Possess Different Recombination Points with an Endogenous Mink Cell Focus-Forming Virus <i>env</i> Gene	43
REGINE HEILBRONN, JÖRG R. SCHLEHOFER, AND HARALD ZUR HAUSEN. Selective Killing of Carcinogen-Treated SV40-Transformed Chinese Hamster Cells by a Defective Parvovirus	43
GITA ABRAHAM, RACHEL YAROM, AND HAIM MANOR. Mapping of Polyadenylated Transcripts of a Monkey Lymphotropic Papova Virus	44
JUNJI TANAKA, TSUTOMU OGURA, SHIGERU KAMIYA, TADAMASA YOSHIE, YOSHIHIKO YABUKI, AND MOTOICHI HATANO. Dexamethasone Enhances Human Cytomegalovirus Replication in Human Epithelial Cell Cultures	44
OLIVER C. RICHARDS, KATHRYN MORTON, SUSAN C. MARTIN, AND ELLIE EHRENFELD. Two Forms of Poliovirus VPg Result from Amino Acid Modification of a Single Viral Protein	45
ANDRAS SCHAEFER, PETER GECK, REINHARD ZIBIRRE, JUTTA KÜHNE, AND GEBHARD KOCH. Alterations of ⁸⁶ Rb ⁺ Fluxes in Poliovirus-Infected HeLa Cells and Their Dependence on Virus Replication	45
AUTHOR INDEX FOR VOLUME 136	46
SUBJECT INDEX FOR VOLUME 136	46